

WESTERN TRUSS JOB # 2001565

JOB NAME :YAVAPAI COUNTY 1 BDRM

JOB SITE ADRESS : YAVAPAI COUNTY

DATE : 10-2-20

REVIEWED FOR
DESIGN CRITERIA
ONLY

1X



MiTek USA, Inc.

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 2001565

YAVAPAI COUNTY 1 BDRM

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Western Truss.

Pages or sheets covered by this seal: R63988693 thru R63988710

My license renewal date for the state of Arizona is March 31, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.



October 8, 2020

Dyer, Cecil

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

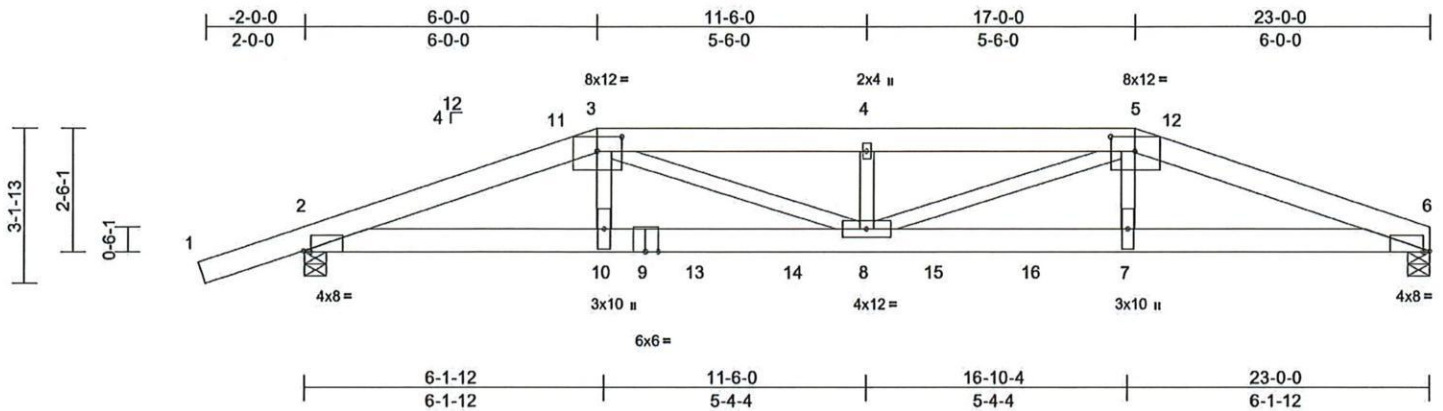
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Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988693
2001565	A01	Hip Girder	2	2	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:38
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Page: 1



Scale = 1:45

Plate Offsets (X, Y): [2:0-1-10,Edge], [3:0-6-0,0-3-8], [5:0-6-0,0-3-8], [6:0-1-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.42	-0.33	8-10	>825	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.74	-0.46	8-10	>586	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.62	0.10	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 209 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 8-3,8-5:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 6=0-5-8
Max Horiz 2=66 (LC 6)
Max Uplift 2=641 (LC 6), 6=529 (LC 7)
Max Grav 2=3917 (LC 17), 6=3644 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/101, 2-11=-9881/1371,
3-11=-9698/1392, 3-4=-12595/1840,
4-5=-12595/1840, 5-12=-9801/1447,
6-12=-9990/1436

BOT CHORD

2-10=-1279/9204, 9-10=-1288/9306,
9-13=-1288/9306, 13-14=-1288/9306,
8-14=-1288/9306, 8-15=-1317/9420,
15-16=-1317/9420, 7-16=-1317/9420,
6-7=-1306/9315

WEBS

3-10=-136/1436, 3-8=-550/3535,
4-8=-865/208, 5-8=-529/3485, 5-7=-146/1491

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-2-0 oc, Except member 3-8 2x4 - 1 row at 0-9-0 oc, Except member 5-8 2x4 - 1 row at 0-9-0 oc, member 4-8 2x4 - 1 row at 0-4-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 529 lb uplift at joint 6 and 641 lb uplift at joint 2.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 976 lb down and 162 lb up at 6-0-0, 429 lb down and 81 lb up at 8-0-12, 429 lb down and 81 lb up at 10-0-12, 429 lb down and 81 lb up at 11-6-0, 429 lb down and 81 lb up at 12-11-4, and 429 lb down and 81 lb up at 14-11-4, and 976 lb down and 162 lb up at 16-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-110, 3-5=-110, 5-6=-110, 2-6=-20
Concentrated Loads (lb)
Vert: 10=-976 (F), 8=-429 (F), 7=-976 (F), 13=-429 (F), 14=-429 (F), 15=-429 (F), 16=-429 (F)



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Roseville, CA 95661

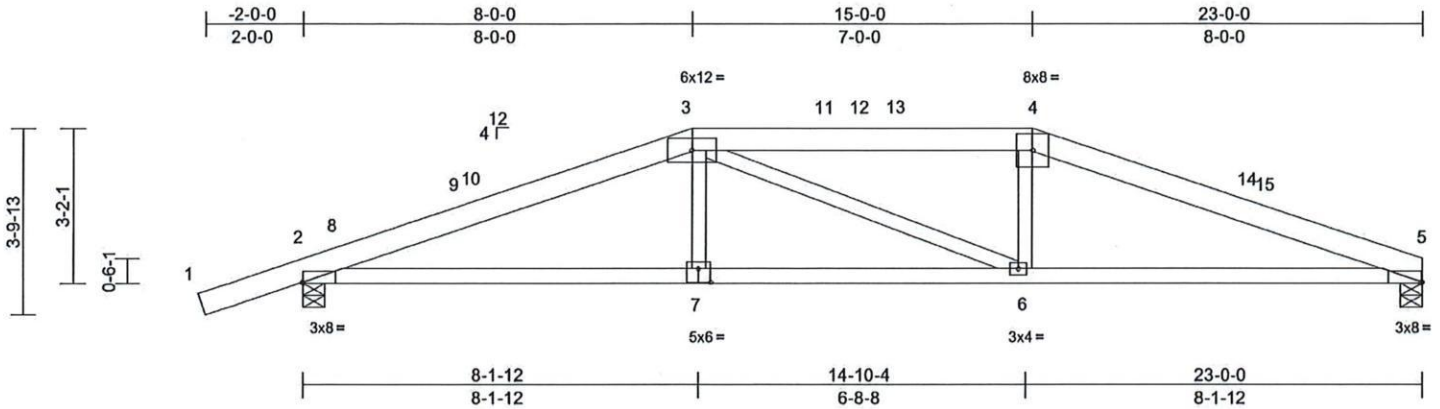
Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988694
2001565	A02	Hip	2	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:41

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Scale = 1:45.3

Plate Offsets (X, Y): [2:0-0-2,Edge], [5:0-0-6,Edge], [7:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.20	5-6	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.35	5-6	>777	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.10	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 85 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 5=0-5-8
Max Horiz 2=73 (LC 14)
Max Uplift 2=307 (LC 10), 5=195 (LC 11)
Max Grav 2=2044 (LC 35), 5=1638 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/89, 2-8=-3373/505, 8-9=-3345/518,
9-10=-3239/520, 3-10=-3219/537,
3-11=-3106/553, 11-12=-3106/553,
12-13=-3106/553, 4-13=-3106/553,
4-14=-3299/544, 14-15=-3307/527,
5-15=-3413/526

BOT CHORD 2-7=-430/3029, 6-7=-425/3038,
5-6=-429/3105

WEBS 3-7=0/293, 3-6=-313/422, 4-6=0/292

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS
(envelope) exterior zone and C-C Exterior(2E) -2-0-14 to
0-11-2, Interior (1) 0-11-2 to 8-0-0, Exterior(2R) 8-0-0 to
12-2-15, Interior (1) 12-2-15 to 15-0-0, Exterior(2R)
15-0-0 to 19-2-15, Interior (1) 19-2-15 to 22-9-4 zone;C-
C for members and forces & MWFRS for reactions
shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10

- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 5 and 307 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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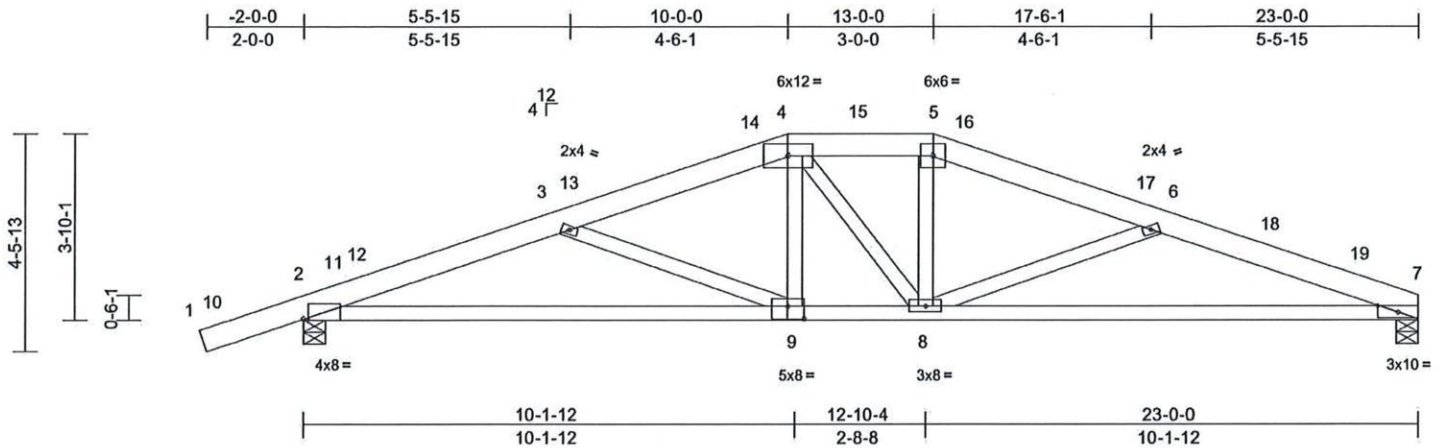
MiTek USA, Inc.
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Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988695
2001565	A03	Hip	2	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

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Page: 1



Scale = 1:45.5

Plate Offsets (X, Y): [2:0-1-2,Edge], [7:0-5-2,0-1-8], [9:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.20	8-9	>999	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.44	7-8	>608		
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.13	7	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 93 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 7=0-5-8
Max Horiz 2=86 (LC 14)
Max Uplift 2=-178 (LC 10), 7=-65 (LC 11)
Max Grav 2=2373 (LC 35), 7=1967 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=0/19, 2-10=0/89, 2-11=-4364/263, 11-12=-4298/264, 3-12=-4214/282, 3-13=-3387/121, 13-14=-3263/127, 4-14=-3131/173, 4-15=-3138/154, 5-15=-3138/154, 5-16=-3161/169, 16-17=-3288/132, 6-17=-3416/117, 6-18=-4338/286, 18-19=-4386/276, 7-19=-4478/267
BOT CHORD 2-9=-210/3949, 8-9=-12/3112, 7-8=-215/4110
WEBS 4-9=0/429, 4-8=-236/284, 5-8=-26/481, 3-9=-913/211, 6-8=-1059/240

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 10-0-0, Exterior(2E) 10-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior (1) 17-2-15 to 22-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 7 and 178 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-110, 4-5=-110, 5-7=-110, 2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)

- Vert: 1-4=-90, 4-5=-90, 5-7=-90, 2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-12=-90, 4-12=-113, 4-5=-113, 5-7=-48, 2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-48, 4-5=-113, 5-19=-113, 7-19=-90, 2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-30, 4-5=-30, 5-7=-30, 2-7=-40



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988695
2001565	A03	Hip	2	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

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Concentrated Loads (lb) Vert: 14=-117, 16=-118		Horz: 1-2=-18, 2-4=-25, 5-7=43		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33		16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33		26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33	
Uniform Loads (lb/ft) Vert: 1-2=70, 2-11=42, 4-11=29, 4-5=42, 5-17=41, 7-17=29, 2-7=-12		Uniform Loads (lb/ft) Vert: 1-2=12, 2-4=18, 4-15=18, 5-15=7, 5-7=7, 2-7=-12		Uniform Loads (lb/ft) Vert: 1-2=-62, 2-4=-67, 4-15=-67, 5-15=-81, 5-7=-81, 2-7=-20	
Horz: 1-2=-82, 2-11=-54, 4-11=-41, 5-17=53, 7-17=41		Horz: 1-2=-24, 2-4=-30, 5-7=19		Horz: 1-2=-28, 2-4=-23, 5-7=9	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33		17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33		27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33	
Uniform Loads (lb/ft) Vert: 1-2=23, 2-13=29, 4-13=41, 4-5=41, 5-18=29, 7-18=42, 2-7=-12		Uniform Loads (lb/ft) Vert: 1-2=1, 2-4=7, 4-15=7, 5-15=18, 5-7=18, 2-7=-12		Uniform Loads (lb/ft) Vert: 1-2=-76, 2-4=-81, 4-15=-81, 5-15=-67, 5-7=-67, 2-7=-20	
Horz: 1-2=-35, 2-13=-41, 4-13=-53, 5-18=41, 7-18=54		Horz: 1-2=-13, 2-4=-19, 5-7=30		Horz: 1-2=-14, 2-4=-9, 5-7=23	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33		18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33		28) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33	
Uniform Loads (lb/ft) Vert: 1-2=-20, 2-4=-47, 4-5=-47, 5-7=-47, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-2=7, 2-4=1, 4-15=1, 5-15=-18, 5-7=-18, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-2=4, 2-4=-28, 4-5=-28, 5-7=-28, 2-7=-12	
Horz: 1-2=-10, 2-4=17, 5-7=-17		Horz: 1-2=-37, 2-4=-31, 5-7=12		Horz: 1-2=-16, 2-4=16, 5-7=-16	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33		19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33		29) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33	
Uniform Loads (lb/ft) Vert: 1-2=-40, 2-4=-47, 4-5=-47, 5-7=-47, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-2=-12, 2-4=-18, 4-15=-18, 5-15=1, 5-7=1, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-4=4, 4-5=4, 5-7=4, 2-7=-12	
Horz: 1-2=10, 2-4=17, 5-7=-17		Horz: 1-2=-18, 2-4=-12, 5-7=31		Horz: 1-4=-16, 5-7=16	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33		20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15		30) 3rd Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft) Vert: 1-2=46, 2-4=31, 4-5=31, 5-7=18, 2-7=-12		Uniform Loads (lb/ft) Vert: 1-2=-110, 2-4=-30, 4-5=-30, 5-7=-30, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-4=-48, 4-5=-113, 5-7=-48, 2-7=-20	
Horz: 1-2=-58, 2-4=-43, 5-7=30		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33		21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15		31) 4th Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft) Vert: 1-2=11, 2-4=18, 4-5=31, 5-7=31, 2-7=-12		Uniform Loads (lb/ft) Vert: 1-12=-110, 4-12=-140, 4-5=-140, 5-7=-54, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-10=-90, 4-10=-113, 4-5=-48, 5-7=-48, 2-7=-20	
Horz: 1-2=-23, 2-4=-30, 5-7=43		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33		22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15		32) 5th Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft) Vert: 1-2=7, 2-4=1, 4-5=1, 5-7=-13, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-4=-54, 4-5=-140, 5-19=-140, 7-19=-110, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-4=-48, 4-5=-113, 5-7=-48, 2-7=-20	
Horz: 1-2=-37, 2-4=-31, 5-7=17		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33		23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90		33) 6th Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft) Vert: 1-2=-7, 2-4=-13, 4-5=1, 5-7=1, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-4=-30, 4-5=-30, 5-7=-30, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-4=-48, 4-5=-48, 5-7=-113, 2-7=-20	
Horz: 1-2=-23, 2-4=-17, 5-7=31		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33		24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33		34) 7th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft) Vert: 1-2=25, 2-4=31, 4-15=31, 5-15=13, 5-7=13, 2-7=-12		Uniform Loads (lb/ft) Vert: 1-2=-62, 2-4=-67, 4-5=-67, 5-7=-77, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-4=-54, 4-5=-160, 5-7=-54, 2-7=-20	
Horz: 1-2=-37, 2-4=-43, 5-7=25		Horz: 1-2=-28, 2-4=-23, 5-7=13		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33		25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33		35) 8th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft) Vert: 1-2=6, 2-4=13, 4-15=13, 5-15=31, 5-7=31, 2-7=-12		Uniform Loads (lb/ft) Vert: 1-2=-73, 2-4=-77, 4-5=-67, 5-7=-67, 2-7=-20		Uniform Loads (lb/ft) Vert: 1-4=-160, 4-5=-54, 5-7=-160, 2-7=-20	
		Horz: 1-2=-17, 2-4=-13, 5-7=23		Concentrated Loads (lb) Vert: 14=-117, 16=-118	
				Concentrated Loads (lb) Vert: 14=-117, 16=-118	
				36) 9th Unbal. Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15	
				Uniform Loads (lb/ft) Vert: 1-4=-160, 4-5=-54, 5-7=-160, 2-7=-20	

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DESIGN CRITERIA ONLY



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988695
2001565	A03	Hip	2	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:41
ID: wL6nxwFCT34VPgMLlVfYkmO-775o6bDE1EkY9mUD?UX9T7w6XYwTsEC23U668vyVI2G

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- Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 37) 10th Unbal.Death + Snow (Unbal. Left) + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-10=-110, 4-10=-140, 4-5=-54, 5-7=-54,
2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 38) 11th Unbal.Death + Snow (Unbal. Right) + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-54, 4-5=-140, 5-7=-54, 2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 39) 12th Unbal.Death + Snow (Unbal. Right) + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-54, 4-5=-54, 5-7=-140, 2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 40) 13th Unbal.Death + 0.75 Snow (balanced) + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-48, 4-5=-127, 5-7=-48, 2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 41) 14th Unbal.Death + 0.75 Snow (balanced) + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-127, 4-5=-48, 5-7=-127, 2-7=-20
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 42) 15th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) Left) + Parallel: Lumber
Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-4=-25, 4-5=-104, 5-7=-35, 2-7=-20
Horz: 1-2=-28, 2-4=-23, 5-7=13
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 43) 16th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) Left) + Parallel: Lumber
Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-100, 2-4=-104, 4-5=-25, 5-7=-115,
2-7=-20
Horz: 1-2=-28, 2-4=-23, 5-7=13
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 44) 17th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) Right) + Parallel: Lumber
Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-31, 2-4=-35, 4-5=-104, 5-7=-25, 2-7=-20
Horz: 1-2=-17, 2-4=-13, 5-7=23
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 45) 18th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) Right) + Parallel: Lumber
Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-110, 2-4=-115, 4-5=-25, 5-7=-104, 2-7=-20
Horz: 1-2=-17, 2-4=-13, 5-7=23
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 46) 19th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) 1st Parallel): Lumber
Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-4=-25, 4-15=-104, 5-15=-118,
5-7=-39, 2-7=-20
Horz: 1-2=-28, 2-4=-23, 5-7=9
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 47) 20th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) 1st Parallel): Lumber
Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-100, 2-4=-104, 4-15=-25, 5-15=-39,
5-7=-118, 2-7=-20
Horz: 1-2=-28, 2-4=-23, 5-7=9
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 48) 21st Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) 2nd Parallel): Lumber
Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-34, 2-4=-39, 4-15=-118, 5-15=-104,
5-7=-25, 2-7=-20
Horz: 1-2=-14, 2-4=-9, 5-7=23
Concentrated Loads (lb)
Vert: 14=-117, 16=-118
- 49) 22nd Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) 2nd Parallel): Lumber
Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-114, 2-4=-118, 4-15=-39, 5-15=-25,
5-7=-104, 2-7=-20
Horz: 1-2=-14, 2-4=-9, 5-7=23
Concentrated Loads (lb)
Vert: 14=-117, 16=-118

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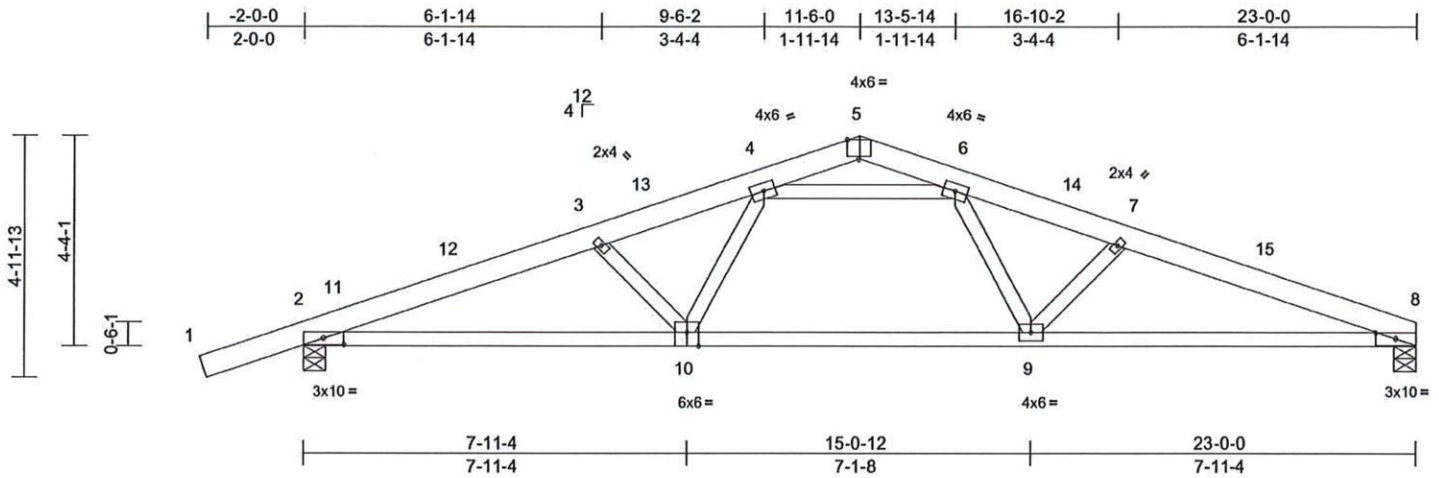
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988696
2001565	A04	Common	3	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:43
ID: OXTV_HxtzmBx6Zryu3A62TyYkmN-3WCZXHEVZr_GO4ec6vadZY?R7MehK5LLXobCCoyVI2E

Page: 1



Scale = 1:45.6

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [5:0-3-0,Edge], [8:0-5-2,0-1-8], [10:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.21	8-9	>999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.33	8-9	>808		
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.11	8	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 89 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 8=0-5-8
Max Horiz 2=95 (LC 14)
Max Uplift 2=167 (LC 10), 8=55 (LC 11)
Max Grav 2=1929 (LC 21), 8=1656 (LC 22)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-11=-3764/165, 11-12=-3649/165, 3-12=-3648/186, 3-13=-3181/118, 4-13=-3070/129, 4-5=-896/88, 5-6=-887/98, 6-14=-3110/150, 7-14=-3254/138, 7-15=-3757/210, 8-15=-3851/197
BOT CHORD 2-10=-119/3426, 9-10=0/2681, 8-9=-132/3546
WEBS 7-9=901/233, 3-10=-811/210, 4-10=-67/801, 4-6=-1814/62, 6-9=-89/886

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 11-6-0, Exterior(2R) 11-6-0 to 15-8-15, Interior (1) 15-8-15 to 22-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 8 and 167 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down at 13-6-0, and 118 lb down at 9-6-0 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-110, 5-8=-110, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)

- Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-90, 5-8=-90, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-12=-90, 5-12=-122, 5-8=-48, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-48, 5-15=-122, 8-15=-90, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)



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October 8, 2020

Continued on page 2

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988696
2001565	A04	Common	3	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:43
ID: OXTV_HtzmBx6Zryu3A62TyYkmN-3WCZXHEVZr_GO4ec6vadZY7R7MehK5LLXobCCoyV12E

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- Vert: 1-5=-30, 5-8=-30, 2-8=-40
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=70, 2-11=42, 5-11=29, 5-14=41, 8-14=29, 2-8=-12
Horz: 1-2=-82, 2-11=-54, 5-11=-41, 5-14=53, 8-14=41
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=23, 2-13=29, 5-13=41, 5-15=29, 8-15=42, 2-8=-12
Horz: 1-2=-35, 2-13=-41, 5-13=-53, 5-15=41, 8-15=54
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-5=-47, 5-8=-47, 2-8=-20
Horz: 1-2=-10, 2-5=17, 5-8=-17
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-40, 2-5=-47, 5-8=-47, 2-8=-20
Horz: 1-2=-10, 2-5=17, 5-8=-17
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=46, 2-5=31, 5-8=18, 2-8=-12
Horz: 1-2=-58, 2-5=-43, 5-8=30
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=11, 2-5=18, 5-8=31, 2-8=-12
Horz: 1-2=-23, 2-5=-30, 5-8=43
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=7, 2-5=1, 5-8=-13, 2-8=-20
Horz: 1-2=-37, 2-5=-31, 5-8=17
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-7, 2-5=-13, 5-8=1, 2-8=-20
Horz: 1-2=-23, 2-5=-17, 5-8=31
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=25, 2-5=31, 5-8=13, 2-8=-12
Horz: 1-2=-37, 2-5=-43, 5-8=25
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=6, 2-5=13, 5-8=31, 2-8=-12
Horz: 1-2=-18, 2-5=-25, 5-8=43
- Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=12, 2-5=18, 5-8=7, 2-8=-12
Horz: 1-2=-24, 2-5=-30, 5-8=19
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=1, 2-5=7, 5-8=18, 2-8=-12
Horz: 1-2=-13, 2-5=-19, 5-8=30
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=7, 2-5=1, 5-8=-18, 2-8=-20
Horz: 1-2=-37, 2-5=-31, 5-8=12
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-12, 2-5=-18, 5-8=1, 2-8=-20
Horz: 1-2=-18, 2-5=-12, 5-8=31
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-110, 2-5=-30, 5-8=-30, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-12=-110, 5-12=-153, 5-8=-54, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-54, 5-15=-153, 8-15=-110, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (lb/ft)
Vert: 1-5=-30, 5-8=-30, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-62, 2-5=-67, 5-8=-77, 2-8=-20
Horz: 1-2=-28, 2-5=-23, 5-8=13
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-73, 2-5=-77, 5-8=-67, 2-8=-20
Horz: 1-2=-17, 2-5=-13, 5-8=23
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-62, 2-5=-67, 5-8=-81, 2-8=-20
- Horz: 1-2=-28, 2-5=-23, 5-8=9
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-76, 2-5=-81, 5-8=-67, 2-8=-20
Horz: 1-2=-14, 2-5=-9, 5-8=23
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 28) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=4, 2-5=-28, 5-8=-28, 2-8=-12
Horz: 1-2=-16, 2-5=16, 5-8=-16
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 29) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-5=4, 5-8=4, 2-8=-12
Horz: 1-5=-16, 5-8=16
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)

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DESIGN CRITERIA
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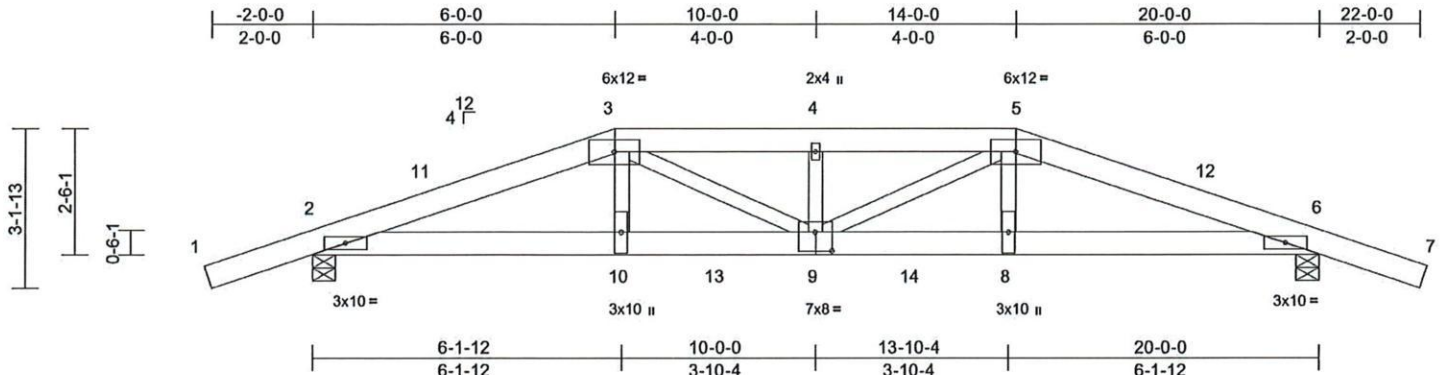
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988697
2001565	B01	Hip Girder	1	2	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:44
ID:h08Sg0GKw3xSetlp1olqxyYkmG-XimxkdF7K9670DDogc5s5YIHm2y3cgVmsKmlEYvI2D

Page: 1



Scale = 1:43.8

Plate Offsets (X, Y): [9:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.19	8-9	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.27	8-9	>881	180	
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.07	6	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 186 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 6=0-5-8
Max Horiz 2=51 (LC 46)
Max Uplift 2=-537 (LC 6), 6=-537 (LC 7)
Max Grav 2=3321 (LC 31), 6=3321 (LC 31)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/101, 2-11=-7908/1048,
3-11=-7776/1069, 3-4=-8738/1253,
4-5=-8738/1253, 5-12=-7776/1070,
6-12=-7907/1049, 6-7=0/101
BOT CHORD 2-10=-958/7332, 10-13=-966/7421,
9-13=-966/7421, 9-14=-934/7421,
8-14=-934/7421, 6-8=-927/7332
WEBS 3-10=-111/1246, 3-9=-271/1763,
4-9=-575/146, 5-9=-273/1763, 5-8=-110/1246

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-2-0 oc, Except member 3-9 2x4 - 1 row at 0-9-0 oc, Except member 5-9 2x4 - 1 row at 0-9-0 oc, member 4-9 2x4 - 1 row at 0-4-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 537 lb uplift at joint 2 and 537 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 976 lb down and 162 lb up at 6-0-0, 429 lb down and 81 lb up at 8-0-12, 429 lb down and 81 lb up at 10-0-0, and 429 lb down and 81 lb up at 11-11-4, and 976 lb down and 162 lb up at 13-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-110, 3-5=-110, 5-7=-110, 2-6=-20
Concentrated Loads (lb)
Vert: 10=-976 (F), 9=-429 (F), 8=-976 (F), 13=-429 (F), 14=-429 (F)



REVIEWED FOR DESIGN CRITERIA ONLY
October 8, 2020

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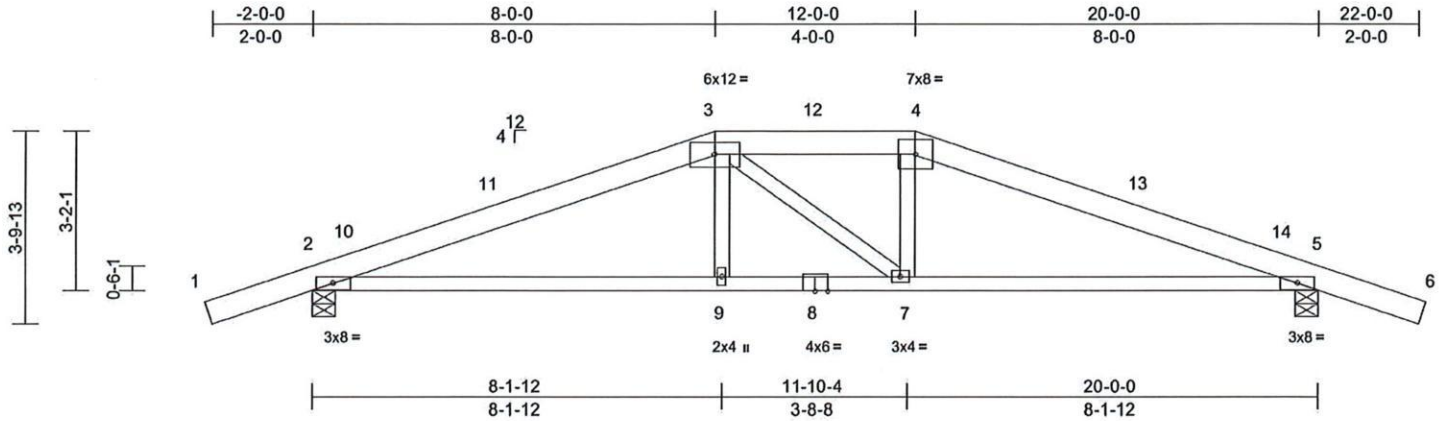
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988698
2001565	B02	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:44
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Page: 1



Scale = 1:43.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.67	-0.14	2-9	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.62	-0.27	2-9	>868	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.07	5	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0									Weight: 77 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 5=0-5-8
Max Horiz 2=-63 (LC 19)
Max Uplift 2=-274 (LC 10), 5=-274 (LC 11)
Max Grav 2=1914 (LC 35), 5=1914 (LC 35)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/89, 2-10=-2709/434, 10-11=-2672/448, 3-11=-2493/466, 3-12=-2356/495, 4-12=-2356/495, 4-13=-2496/472, 13-14=-2675/455, 5-14=-2713/440, 5-6=0/89
BOT CHORD 2-9=-329/2346, 8-9=-326/2353, 7-8=-326/2353, 5-7=-343/2349
WEBS 3-9=0/228, 3-7=-312/320, 4-7=-45/293

- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 2 and 274 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior (1) 16-2-15 to 22-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.



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October 8, 2020

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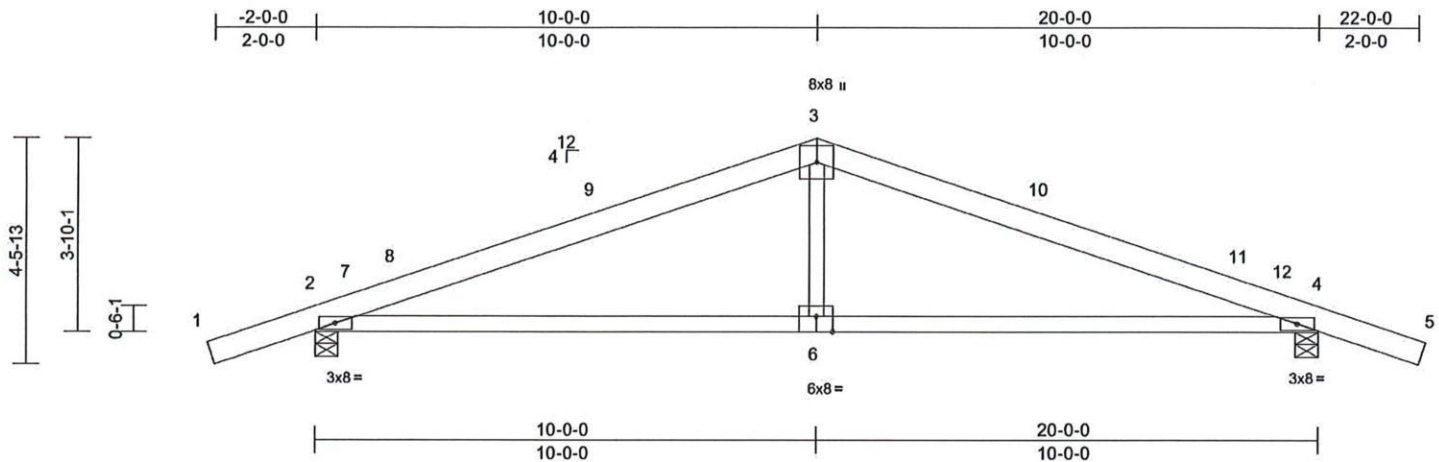
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988699
2001565	B03	Common	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:45
ID:sk1tCdxWk4JokjQ8SmhLbgYkmM-7uKJyyGI5SE_eNn_EKc5ez5gx9Lmo9Ke_64JHhyVI2C

Page: 1



Scale = 1:44

Plate Offsets (X, Y): [6:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.25	2-6	>947	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.43	2-6	>540	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.06	4	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 72 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 4=0-5-8
Max Horiz 2=-75 (LC 15)
Max Uplift 2=-260 (LC 10), 4=-260 (LC 11)
Max Grav 2=1642 (LC 21), 4=1642 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/61, 2-7=-2247/308, 7-8=-2211/312, 8-9=-2078/329, 3-9=-2045/347, 3-10=-2045/347, 10-11=-2078/329, 11-12=-2211/312, 4-12=-2247/308, 4-5=0/61
BOT CHORD 2-6=-191/1959, 4-6=-191/1959
WEBS 3-6=0/421

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior (1) 14-2-15 to 22-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2 and 260 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



REVIEWED FOR DESIGN CRITERIA ONLY
October 8, 2020

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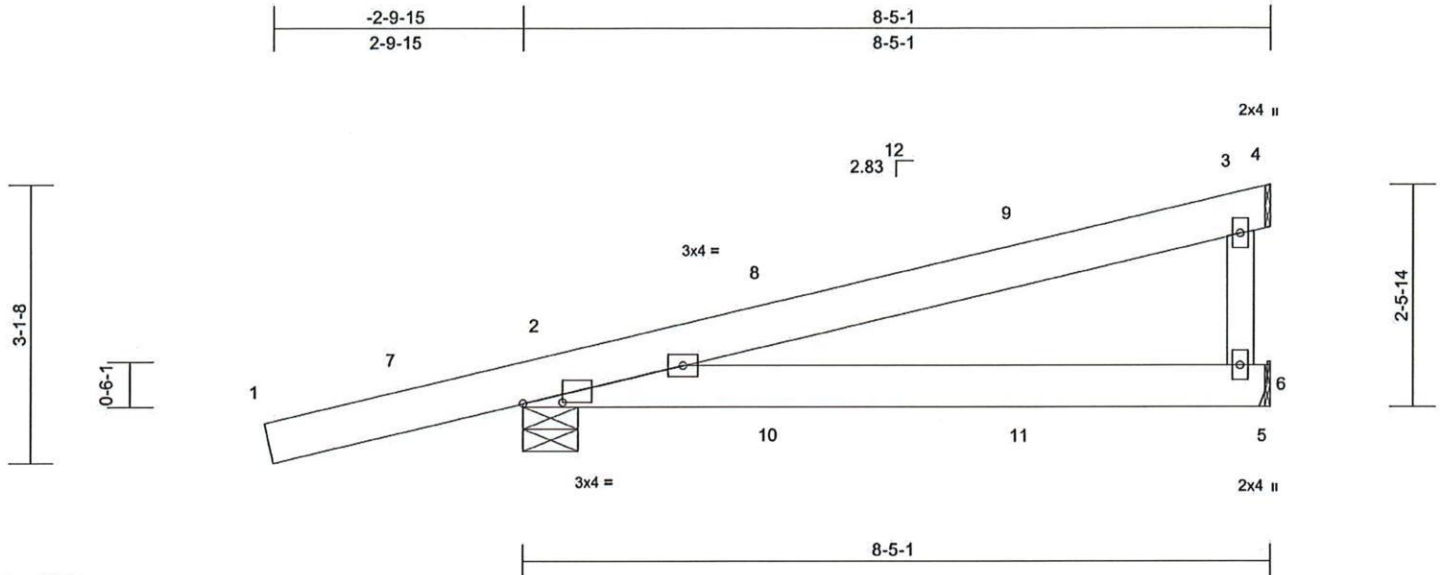
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988700
2001565	J01	Diagonal Hip Girder	6	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:45
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Page: 1



Scale = 1:24.9

Plate Offsets (X, Y): [2:0-5-5,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.07	2-6	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.14	2-6	>669	180	
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-7-6, 5= Mechanical
Max Horiz 2=105 (LC 36)
Max Uplift 2=-217 (LC 6), 5=-53 (LC 7)
Max Grav 2=1073 (LC 17), 5=575 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=0/34, 2-7=0/80, 2-8=-137/31, 8-9=-115/7,
3-9=-59/82, 3-4=-11/0, 3-6=-499/112
BOT CHORD 2-10=-29/22, 10-11=-29/22, 6-11=-29/22,
5-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cal.
II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed; end vertical left and
right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCCL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2 and 53 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 302 lb up at 2-9-8, 97 lb down and 302 lb up at 2-9-8, and 109 lb down and 56 lb up at 5-7-7, and 109 lb down and 56 lb up at 5-7-7 on top chord, and 0 lb down at 2-9-8, 7 lb down at 2-9-8, and 20 lb down at 5-7-7, and 20 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-110, 3-4=-110, 2-5=-20
Concentrated Loads (lb)
Vert: 8=124 (F=62, B=62), 9=-59 (F=-30, B=-30),
11=-18 (F=-9, B=-9)



REVIEWED FOR
DESIGN CRITERIA
ONLY
October 8, 2020

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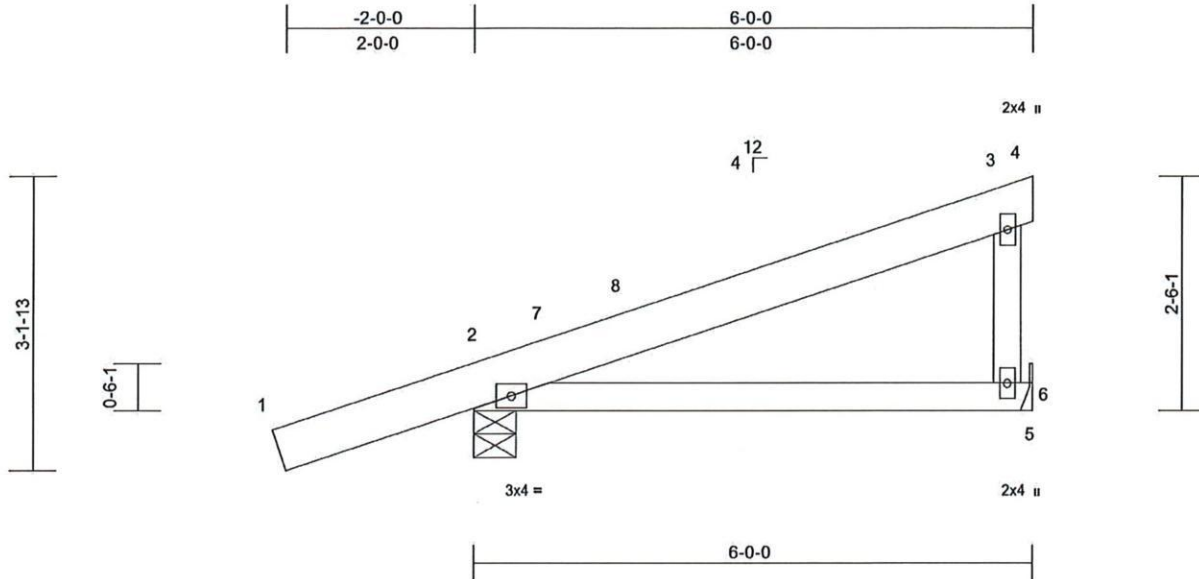
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988701
2001565	J02	Jack-Closed	19	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:46
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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.05	2-6	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.10	2-6	>648	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 6= Mechanical
Max Horiz 2=124 (LC 10)
Max Uplift 2=-164 (LC 10), 6=-61 (LC 14)
Max Grav 2=898 (LC 21), 6=449 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/85, 2-7=-170/10, 7-8=-97/18,
3-8=-90/91, 3-4=-13/0, 3-6=-388/231
BOT CHORD 2-6=0/0, 5-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cal.
II, Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS
(envelope) exterior zone and C-C Exterior(2E) -2-0-14 to
0-11-2, Interior (1) 0-11-2 to 6-0-0 zone; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf
on the bottom chord in all areas where a rectangle
3'-06-00 tall by 2'-00-00 wide will fit between the bottom
chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 61 lb uplift at joint
6 and 164 lb uplift at joint 2.
 - 9) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S) Standard



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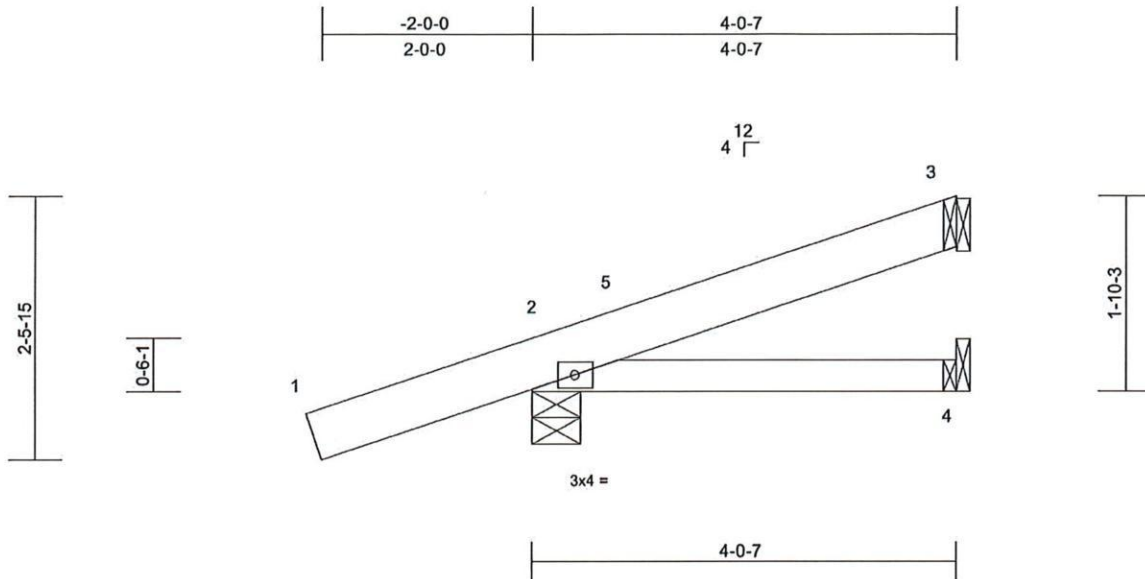
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988702
2001565	J03L	Jack-Open	6	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:46
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Page: 1



Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=95 (LC 10)
Max Uplift 2=-164 (LC 10), 3=-51 (LC 14)
Max Grav 2=782 (LC 21), 3=178 (LC 21), 4=75 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/85, 2-5=-141/10, 3-5=-103/43
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 3-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 3 and 164 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



REVIEWED FOR DESIGN CRITERIA ONLY
October 8, 2020

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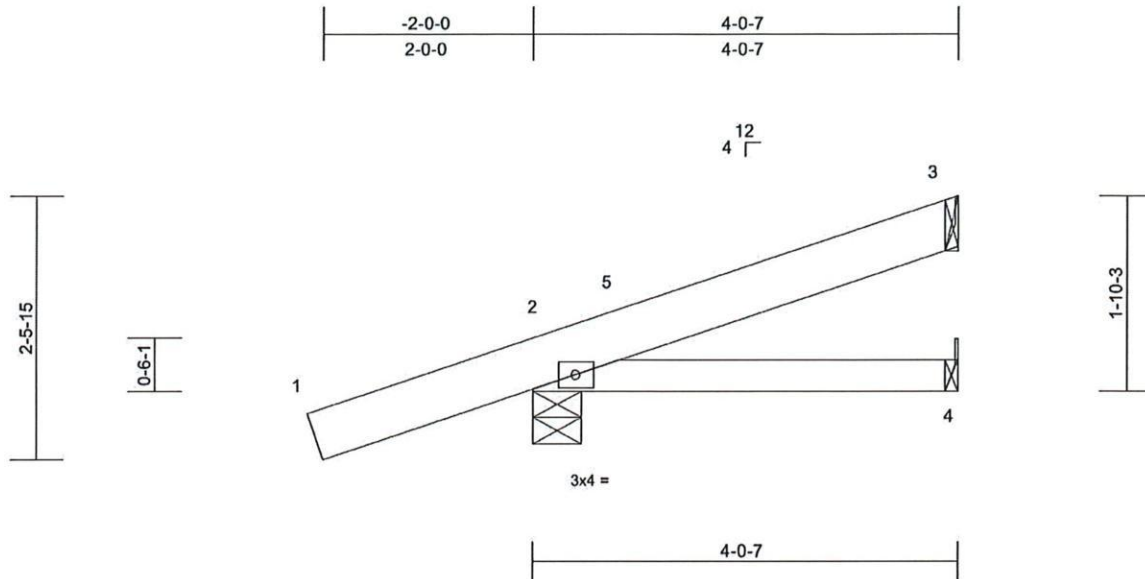
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988703
2001565	J03R	Jack-Open	6	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:46
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Page: 1



Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	2-4	>999	240	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	2-4	>999	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 16 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=95 (LC 10)
Max Uplift 2=-164 (LC 10), 3=-51 (LC 14)
Max Grav 2=782 (LC 21), 3=178 (LC 21), 4=75 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/85, 2-5=-141/10, 3-5=-103/43
BOT CHORD 2-4=0/0

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 3-11-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 3 and 164 lb uplift at joint 2.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



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October 8, 2020

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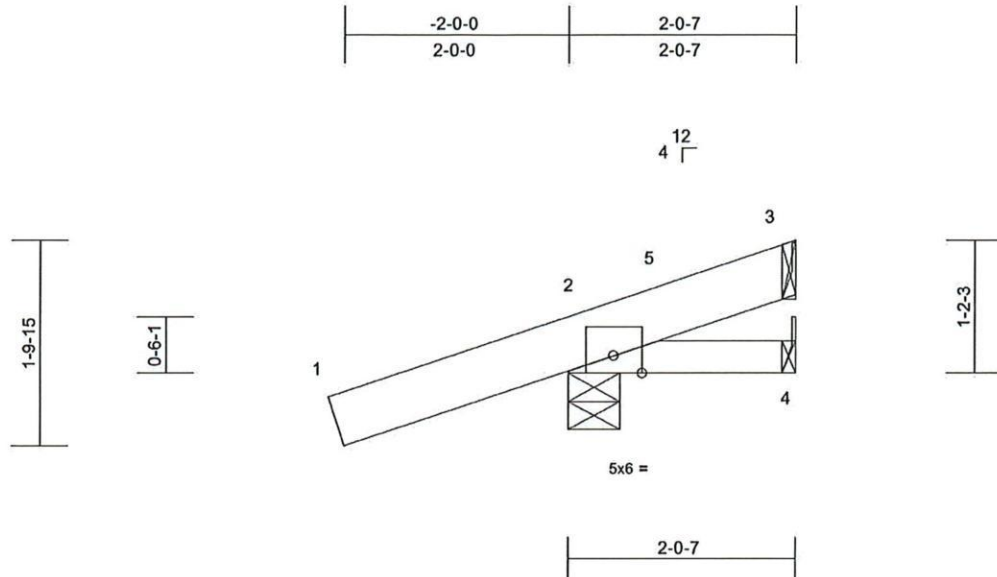
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988704
2001565	J04L	Jack-Open	6	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

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Page: 1



Scale = 1:19.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	2-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=67 (LC 10)
Max Uplift 2=-189 (LC 10), 3=-141 (LC 20)
Max Grav 2=713 (LC 21), 3=40 (LC 10), 4=35 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/83, 2-5=-144/26, 3-5=-102/33
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 1-11-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 3 and 189 lb uplift at joint 2.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S) Standard



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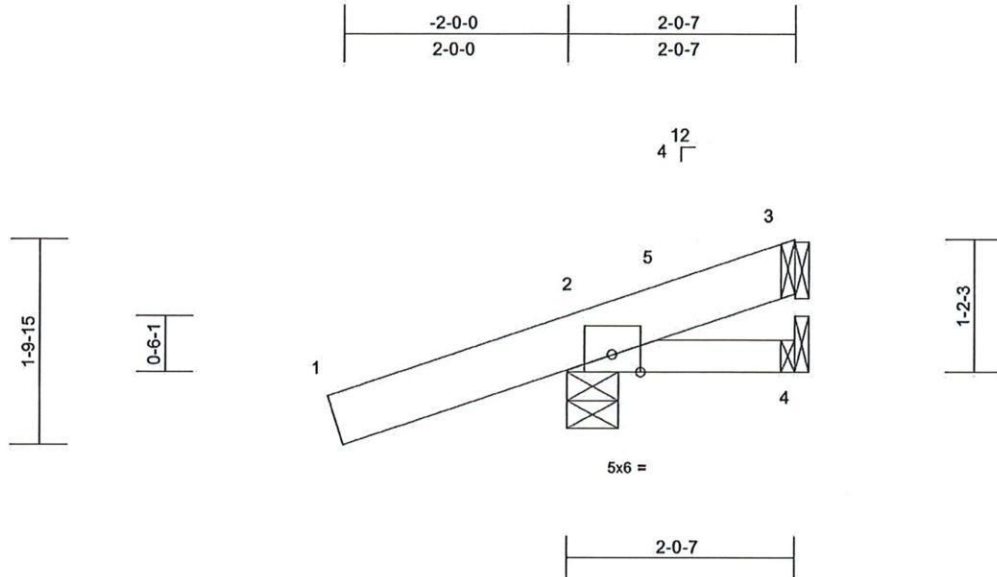
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988705
2001565	J04R	Jack-Open	6	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:47
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Page: 1



Scale = 1:19.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	2-4	>999	240	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>999	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=67 (LC 10)
Max Uplift 2=189 (LC 10), 3=-141 (LC 20)
Max Grav 2=713 (LC 21), 3=40 (LC 10), 4=35 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/83, 2-5=-144/26, 3-5=-102/33
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 1-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 3 and 189 lb uplift at joint 2.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S) Standard



REVIEWED FOR
DESIGN CRITERIA
ONLY
October 8, 2020

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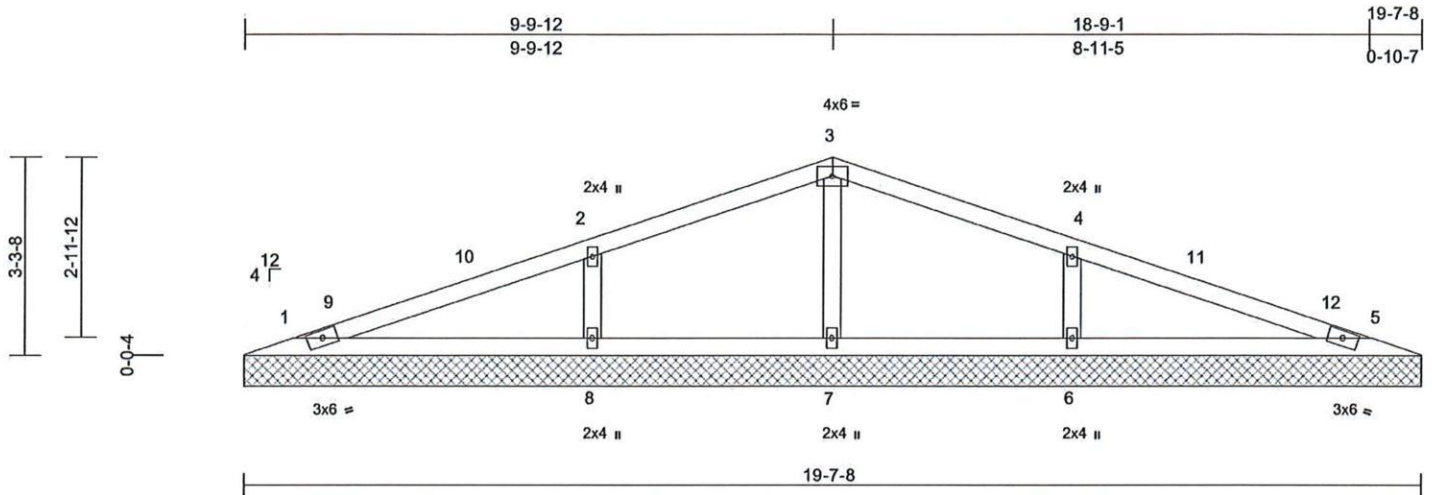
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Rosville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988706
2001565	V01	Valley	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:47
ID:K3C13BCCQjNVfSI8rvAyPyWSZN-xHS3MeI?c4UilthxNLleZjOA6Lz9JG5HxSQZQMZYvi2A

Page: 1



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 49 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 WW Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=19-7-8, 5=19-7-8, 6=19-7-8, 7=19-7-8, 8=19-7-8
Max Horiz 1=56 (LC 14)
Max Uplift 1=-28 (LC 10), 5=-34 (LC 11), 6=-136 (LC 15), 8=-136 (LC 14)
Max Grav 1=319 (LC 20), 5=319 (LC 21), 6=948 (LC 21), 7=369 (LC 1), 8=948 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-125/30, 9-10=-53/38, 2-10=-30/105, 2-3=-146/99, 3-4=-146/97, 4-11=-13/105, 11-12=-30/14, 5-12=-125/7
BOT CHORD 1-8=-8/45, 7-8=-8/45, 6-7=-8/45, 5-6=-8/45
WEBS 3-7=-329/69, 2-8=-790/207, 4-6=-790/207

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior (1) 3-11-5 to 9-10-8, Exterior(2R) 9-10-8 to 13-10-8, Interior (1) 13-10-8 to 18-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 34 lb uplift at joint 5, 136 lb uplift at joint 8 and 136 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



REVIEWED FOR DESIGN CRITERIA ONLY
October 8, 2020

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



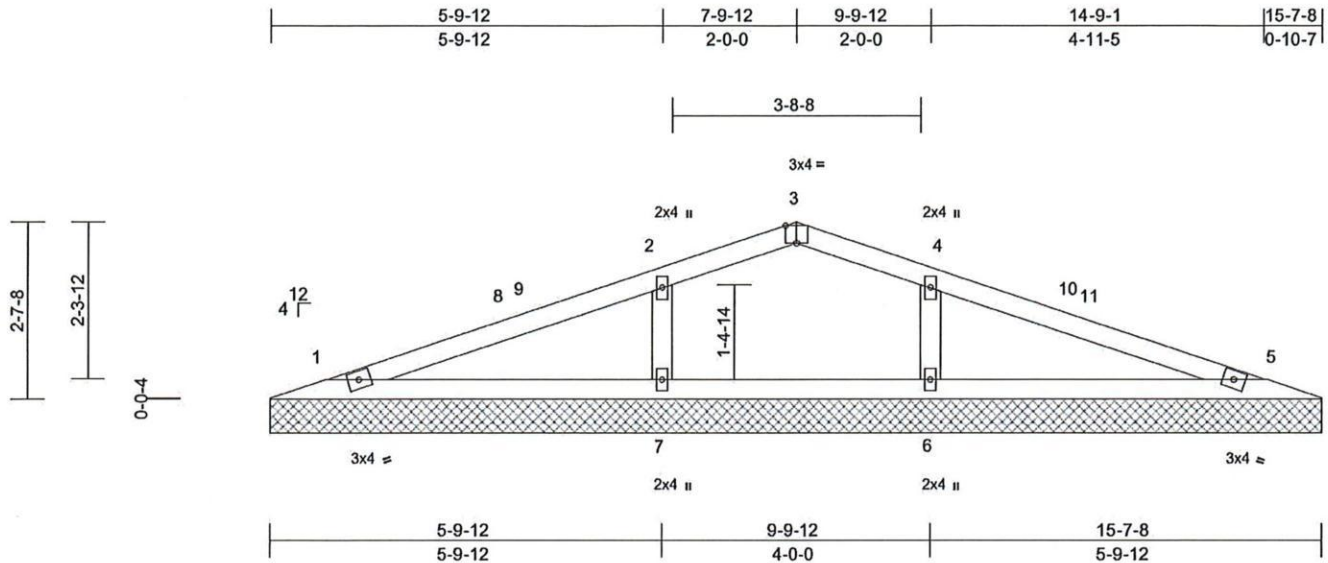
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988707
2001565	V02	Valley	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:48
ID:snXfabMwge1Ak3hUbr97fsyWSaS-QT0Sa_IdNNcYVrWZvS9oGbjHVNNUB?Ys4g4Izu?yV129

Page: 1



Scale = 1:32.8

Plate Offsets (X, Y): [3:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.46	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.28	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.21	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0									Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=15-7-8, 5=15-7-8, 6=15-7-8, 7=15-7-8
Max Horiz 1=43 (LC 14)
Max Uplift 1=22 (LC 10), 5=23 (LC 11), 6=112 (LC 15), 7=114 (LC 14)
Max Grav 1=340 (LC 20), 5=340 (LC 21), 6=864 (LC 21), 7=864 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-82/41, 8-9=-72/48, 2-9=-71/157, 2-3=-70/30, 3-4=-70/30, 4-10=-70/157, 10-11=-71/48, 5-11=-82/41
BOT CHORD 1-7=-52/107, 6-7=-52/107, 5-6=-52/107
WEBS 2-7=-715/229, 4-6=-715/229

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior (1) 3-11-5 to 7-10-8, Exterior(2R) 7-10-8 to 12-1-7, Interior (1) 12-1-7 to 14-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 23 lb uplift at joint 5, 114 lb uplift at joint 7 and 112 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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DESIGN CRITERIA
ONLY
October 8, 2020

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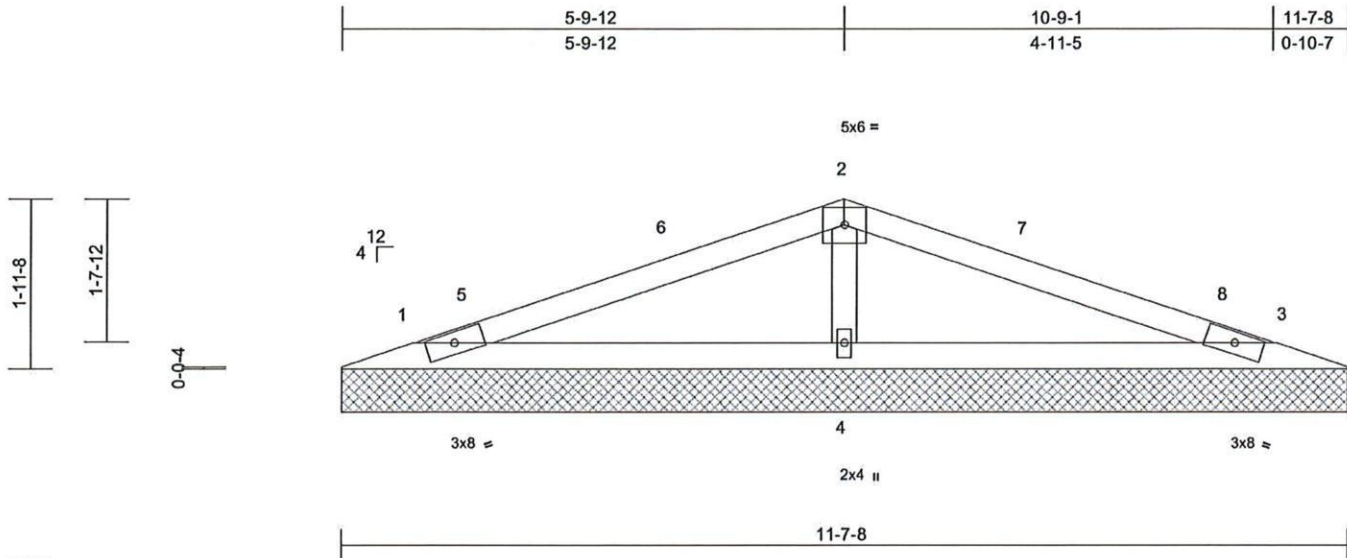
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988708
2001565	V03	Valley	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:48
ID:CTp72VDPVYWIHDMBuKyBAKyWSae-QT0Sa_IdNNcYVrWZvS9oGbJhJNTI?Za4g4Izu7yVI29

Page: 1



Scale = 1:25.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999	
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 26 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 WW Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=11-7-8, 3=11-7-8, 4=11-7-8
Max Horiz 1=-31 (LC 15)
Max Uplift 1=-46 (LC 10), 3=-50 (LC 15), 4=-59 (LC 10)
Max Grav 1=385 (LC 20), 3=385 (LC 21), 4=724 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-168/46, 5-6=-48/53, 2-6=-28/71, 2-7=-28/71, 7-8=-48/50, 3-8=-168/43

BOT CHORD 1-4=-1/46, 3-4=-1/46

WEBS 2-4=-519/223

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior (1) 3-11-5 to 5-10-8, Exterior(2R) 5-10-8 to 10-1-7, Interior (1) 10-1-7 to 10-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 3) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1, 50 lb uplift at joint 3 and 59 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



REVIEWED FOR DESIGN CRITERIA ONLY
October 8, 2020

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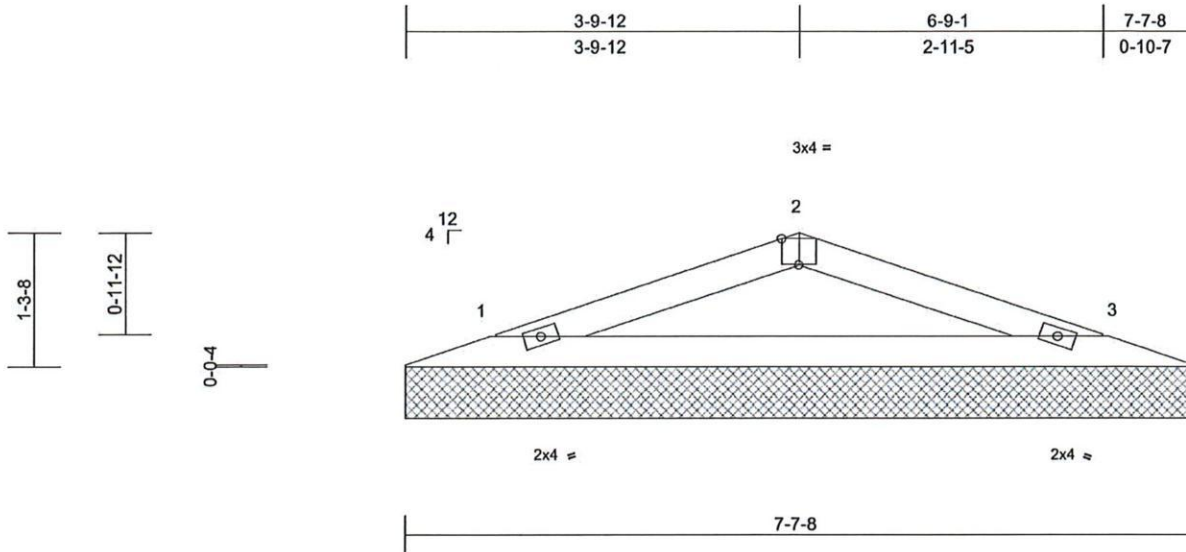
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988709
2001565	V04	Valley	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:49
ID:sW?E?n9GgQuaBSuD5nM0TGyWSaj-ufZqnKJG8hkP675mTAh1opFWXnpuk2JEvk2XQSyVI28

Page: 1



Scale = 1:21.4

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999	
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=7-7-8, 3=7-7-8
Max Horiz 1=19 (LC 15)
Max Uplift 1=45 (LC 10), 3=45 (LC 11)
Max Grav 1=412 (LC 20), 3=412 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-545/324, 2-3=-545/324
BOT CHORD 1-3=-262/477

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1 and 45 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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October 8, 2020

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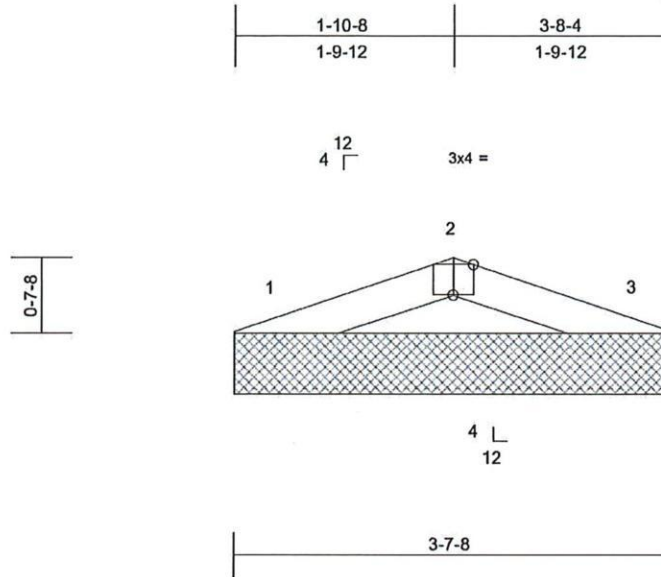
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 1 BDRM	R63988710
2001565	V05	Valley	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:51:49
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Page: 1



Scale = 1:18.2

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.00	Vert(TL)	n/a	-	n/a	999	
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 4 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-7-8, 3=3-7-8

Max Horiz 1=-9 (LC 15)

Max Uplift 1=-38 (LC 10), 3=-38 (LC 11)

Max Grav 1=156 (LC 20), 3=156 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-43/39, 2-3=-43/39

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 4-0-0 oc.

8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 38 lb uplift at joint 3.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



REVIEWED FOR
DESIGN CRITERIA
ONLY
October 8, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

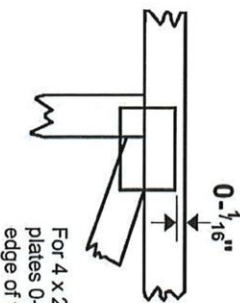


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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—
This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 20/20** software or upon request.

PLATE SIZE

4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



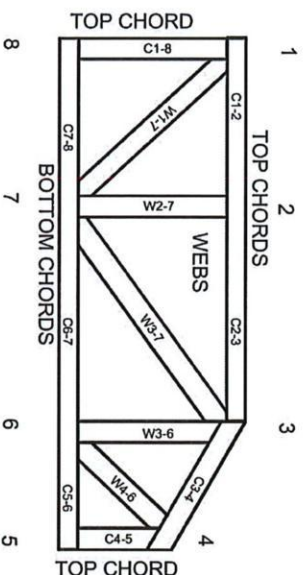
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

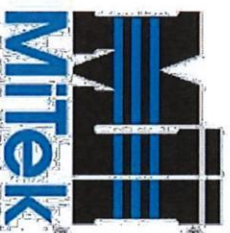
ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: ML-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

REVIEWED FOR DESIGN CRITERIA ONLY